What is claimed is:

A picture phone apparatus comprising:

an image picking section which picks up a picture data;

5 a display section;

a substitution picture storage section which stores a substitution picture data;

an image processing section which checks
whether said picked-up picture data is valid or

10 invalid, retrieves said substitution picture data from
said substitution picture storage section to output as
transmission picture data when it is determined that
said picked-up picture data is invalid, sets said
picked-up picture data as said transmission picture

15 data when it is determined that said picked-up picture
data is valid, and encodes said transmission picture
data: and

a communication processing section which
multiplexes said encoded transmission picture data and
transmission audio data into transmission data and
transmits said transmission data to a counter station.

The picture phone apparatus according to claim
 wherein said image processing section controls said
 display section to display said transmission picture
 data.

The picture phone apparatus according to claimfurther comprising:

an operation section,

wherein said image processing section encodes
and outputs said transmission picture data to said
communication processing section when a picture
transmission permission instruction is inputted from
said operation section.

- 10 4. The picture phone apparatus according to claim 1, wherein said image processing section determines whether said picked-up picture data is valid or invalid, based on at least one of brightness data of said picked-up picture data and spatial frequency of 15 said picked-up picture data.
 - The picture phone apparatus according to claimfurther comprising:

an audio processing section; and

a speaker,

wherein said communication processing section receives reception data, separates said reception data into reception picture data and reception audio data, and outputs said reception picture data to said image processing section and said reception audio data to said audio processing section,

said audio processing section decodes said

reception audio data to produce an audio signal and drives said speaker based on said audio signal for an audio output, and

said image processing section checks whether

5 said reception picture data is valid or invalid, sets said reception picture data as a reception display picture when it is determined that said reception picture data is valid, and retrieves said substitution picture data to set said substitution picture data as

10 said reception display picture when it is determined that said reception picture data is invalid, and outputs said reception display picture to said display section.

- 15 6. The picture phone apparatus according to claim
 1, wherein said image processing section determines
 whether said reception picture data is valid or
 invalid, based on at least one of brightness data of
 said reception picture data and spatial frequency of
 20 said reception picture data.
 - 7. The picture phone apparatus according to claim
 1, wherein said substitution picture data is one of a
 still image data and video picture data.

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8. A picture phone apparatus comprising:
a display section;

a substitution picture storage section which stores a substitution picture data;

an audio processing section; an image processing section;

5 a speaker; and

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a communication processing section which receives reception data, separates said reception data into reception picture data and reception audio data, and outputs said reception picture data to said image processing section and said reception audio data to said audio processing section,

wherein said audio processing section decodes said reception audio data to produce an audio signal and drives said speaker based on said audio signal for an audio output, and

said image processing section checks whether said reception picture data is valid or invalid, sets said reception picture data as a reception display picture when it is determined that said reception

20 picture data is valid, and retrieves said substitution picture data to set said substitution picture data as said reception display picture when it is determined that said reception picture data is invalid, and outputs said reception display picture to said display section.

9 The picture phone apparatus according to claim

- 8, wherein said image processing section determines whether said reception picture data is valid or invalid, based on at least one of brightness data of said reception picture data and spatial frequency of 5 said reception picture data.
 - 10. The picture phone apparatus according to claim 8, wherein said substitution picture data is one of a still image data and video picture data.

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11. A picture data transmission method in a picture phone apparatus comprising:

picking up a picture data;

checking whether said picked-up picture data is 15 valid or invalid;

encoding said picked-up picture data as transmission picture data when it is determined that said picked-up picture data is valid, and substitution picture data as said transmission picture data when it is determined that said picked-up picture data is invalid;

multiplexing said transmission picture data and transmission audio data into transmission data; and

transmitting said transmission data to a 25 counter station.

12. The picture data transmission method according

to claim 11, further comprising:

displaying said transmission picture data.

- 13. The picture phone apparatus according to claim
 5 12, wherein said encoding is started when a picture transmission permission instruction is inputted from a user.
- 14. The picture data transmission method according 10 to claim 11, wherein said checking is carried out based on at least one of brightness data of said picked-up picture data and spatial frequency of said picked-up picture data.
- 15 15. The picture data transmission method according to claim 11, further comprising:

receiving reception data;

separating said reception data into reception picture data and reception audio data;

20 checking whether said reception picture data is valid or invalid; and

displaying said reception picture data when it is determined that said reception picture data is valid, and said substitution picture data when it is

25 determined that said reception picture data is invalid.

- 16. The picture data transmission method according to claim 11, wherein said checking is carried out based on at least one of brightness data of said reception picture data and spatial frequency of said 5 reception picture data.
 - 17. The picture data transmission method according to claim 11, wherein said substitution picture data is one of a still image data and video picture data.

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18. A picture data transmission method comprising: receiving reception data;

separating said reception data into reception picture data and reception audio data;

checking whether said reception picture data is valid or invalid; and

displaying said reception picture data when it is determined that said reception picture data is valid, and said substitution picture data when it is determined that said reception picture data is invalid.

- The picture data transmission method according to claim 18, wherein said checking is carried out
- 25 based on at least one of brightness data of said reception picture data and spatial frequency of said reception picture data.

The picture data transmission method according to claim 18, wherein said substitution picture data is one of a still image data and video picture data.